

***LineUp With Math™* Alignment**  
**North Dakota Mathematics Content and Achievement Standards**  
**April 2005**

**Standard 1: Number and Operation**

Students understand and use basic and advanced concepts of number and number systems.

**NUMBERS, NUMBER RELATIONSHIPS, AND NUMBER SYSTEMS**
**Benchmark Expectations**

7.1.1. Use ratios and proportions to represent relationships.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

**COMPUTATIONAL FLUENCY AND ESTIMATION**
**Benchmark Expectations**

7.1.8. Solve real-world problems using integers, fractions, decimals, and percents.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

--Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

7.1.9. Estimate the results of problems involving fractions, decimals, and percents.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

7.1.10. Use proportions to solve problems.

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.